Translation

PATENT COOPERATION THE TY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P27120/WO Kf	FOR FURTHER ACTI	ION	See Form PCT/IPEA/416			
International application No.	International filing date (Priority date (day/month/year)			
PCT/EP2003/012248	03 November 2003	(03.11.2003)	05 November 2002 (05.11.2002)			
International Patent Classification (IPC) or r F04B 1/20	national classification and II	PC				
Applicant BR	UENINGHAUS HYD	ROMATIK GM	⁄ВН			
This report is the international preli Authority under Article 35 and tran .	minary examination report, smitted to the applicant acco	established by this ording to Article 3	International Preliminary Examining 6.			
2. This REPORT consists of a total of	5 sheets, inc	cluding this cover s	sheet.			
3. This report is also accompanied by	ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
	, containing ndicated in the Supplement	g a sequence listin	pe and number of electronic carrier(s)) g and/or tables related thereto, in computer o Sequence Listing (see Section 802 of the			
4. This report contains indications rela	ating to the following items:	:				
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
19 April 2004 (19.04.2004)		09 November 2004 (09.11.2004)				
Name and mailing address of the IPEA/EP		Authorized officer				
Faccimile No		alanhona No	•			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

iternational application No.

PCT/EP2003/012248

1. With regard to the language, this report is based on the international application in the language in which it was filed, unlenguage in otherwise indicated under this item.	ess
otherwise indicated under this item.	
This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of:	
international search (under Rules 12.3 and 23.1(b))	
publication of the international application (under Rule 12.4)	
international preliminary examination (under Rules 55.2 and/or 55.3)	
2. With regard to the elements of the international application, this report is based on (replacement sheets which has furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "original and are not annexed to this report): The international application as originally filed/furnished	ve been ly filed"
the description:	
1 -	/firmiched
pages 1-10 , as originally filed pages* received by this Authority on	Tuttiistied
pages* received by this Authority on	
the claims:	
pages 1-14 , as originally filed	/firmished
pages*, as amended (together with any statement) under	
pages* received by this Authority on	
pages* received by this Authority on	
the drawings:	
pages	furnished
pages* received by this Authority on	
pages* received by this Authority on	
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to sequence listing (specify):	
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs	been Box
the sequence listing (specify):	
any table(s) related to sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "superseded."	

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
. Statement							
Novelty (N)	•	Claims	1-14 ~	YES			
		Claims		NO			
Inventive step (IS)	Claims	1-14	YES				
		Claims		NO			
Industrial appli	icability (IA)	Claims	1-14	YES			
		Claims		NO			
Citations and e	xnlanations						

Reference is made to the following document:

D1: DE 43 40 061 A.

Document D1, which is considered the closest prior 1. art, discloses a control plate for an axial piston machine according to the preamble of claim 1.

The features of the characterizing part of claim 1 are novel and consequently claim 1 meets the requirements for novelty of PCT Article 33(2).

The control plate according to claim 1 differs from 2. that of document D1 in that the radially inner edge (47) of the control plate (20) is in the form of a centering surface (29) which centres the control plate (20) on a centering body (7) situated on the housing side, and in that the centering surface (29) consists of several part surfaces (29.1, 29.2, 29.3), which are embodied on segments (43.1, 43.2, 43.3) of the inner edge (47) of the control plate (20) which extend radially inward into the passage (38) and are separated by recesses (36.1, 36.2, 36.3).

The problem to be solved by the invention is that of simplifying the processing of the control plate and reducing component weight. There was no reason for a person skilled in the art to redesign the passage in the control plate of an axial piston machine of the kind in question so as to permit the centering of the control plate along its inner edge.

Consequently, the subject matter of claim 1 involves an inventive step (PCT Article 33(3)).

- 3. Independent claim 8 discloses an axial pistol machine having a control plate according to claim 1. As a result, the subject matter of claim 8 is novel and inventive.
- 4. Claims 2-7 and 9-14 are dependent on claims 1 and 8 and therefore likewise meet the PCT requirements for novelty and inventive step.